

1 stepped pressure equilibrium code : pp20aa

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1. Fits Fourier harmonics to field line. Redundant;
2. Given a set of points, R_j and Z_j , this routines finds the values of t , $R_{m,n}$ and $Z_{m,n}$ that minimizes the sum of squares

$$f \equiv \sum_j [(R_j - \bar{R}_j)^2 + (Z_j - \bar{Z}_j)^2] \quad (1)$$

where

$$\bar{R}_j = \sum_{m,n} R_{m,n} \cos(m\theta_j - n\zeta_j), \quad (2)$$

$$\bar{Z}_j = \sum_{m,n} Z_{m,n} \sin(m\theta_j - n\zeta_j), \quad (3)$$

and $\theta_j = t\zeta_j$.

3. The NAG routine E04HYF is used.

pp20aa.h last modified on 2012-09-16 ;